

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings of claims in the application:

**Listing of Claims:**

- 1                    1 (original): A method for measuring a physiological parameter, comprising:  
2                    measuring a plurality of signals, wherein each of said signals comprises a source  
3 component corresponding to said physiological parameter and an interference component;  
4                    processing said plurality of signals to obtain a plurality of principal components;  
5                    processing said plurality of principal components to obtain a plurality of  
6 independent components, wherein a matrix of said plurality of signals corresponds to a matrix  
7 product of a matrix of said plurality of independent components and a matrix of mixing  
8 coefficients; and  
9                    extracting a first measure of said physiological parameter corresponding to said  
10 source component from one of said plurality of independent components.

Claims 2-40 (canceled)